

ACCESSION NR: AP4042067

S/2681/63/000/010/0057/0087

AUTHOR: Bolotin, V. V. (Professor, doctor)

TITLE: Sationary distributions of probabilities in the statistical dynamics of elastic systems

SOURCE: AN LatSSR. Institut avtomatiki i mekhaniki. Voprosy* dinamiki i prochnosti, no. 10, 1963, 57-67

TOPIC TAGS: oscillation, elastic system, statistical dynamics, stationary probability distribution, Markov process, attenuation factor

ABSTRACT: The author notes that for the solution of problems involving the oscillations of mechanical systems under the influence of stationary random forces, along with the correlation and spectral theories, methods based on the theory of multi-dimensional Markov processes have been employed. Of particular interest, in the author's view, are the stationary distributions of the parameters. These distributions provide a probabilistic description of the behavior of the elastic system in time intervals rather large in comparison with the relaxation time. The Maxwell - Boltzmann distribution, widely used in statistical physics and in the theory of Brownian motion, is an example of a well-studied stationary distribution, corresponding to certain special types of multi-dimensional Markov

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processes. The present article is devoted to a discussion of the constraints which must be imposed on the properties of an elastic system and on the properties of a random load in order that the stationary distribution of the dynamic variables of the system be described by a Maxwell - Boltzmann distribution. Some information from the theory of multi-dimensional Markov processes is introduced, and the limitations are discussed under which the time variation in the probability density is described by the Fokker - Planck - Kolmogorov equation. This equation is introduced and solved, and it is shown that if the generalized forces are "white noise", then the joint evolution of generalized coordinates and generalized velocities represents a multi-dimensional continuous Markov process, described by such an equation. The author notes, however, that the equation derived in the text

$$\begin{aligned} \dot{q}(q_1, q_2, \dots, q_n, \dot{q}_1, \dot{q}_2, \dots, \dot{q}_n) = & - \sum_{\alpha=1}^n \dot{q}_\alpha \frac{\partial p}{\partial q_\alpha} + \\ & + \sum_{\alpha=1}^n \frac{2c_\alpha}{p_\alpha} \left(p + \dot{q}_\alpha \frac{\partial p}{\partial q_\alpha} \right) + \sum_{\alpha=1}^n \frac{1}{p_\alpha} \frac{\partial}{\partial \dot{q}_\alpha} (ph_\alpha) + \\ & + \frac{1}{2} \sum_{\alpha=1}^n \sum_{\beta=1}^n \frac{c_{\alpha\beta}}{p_\alpha p_\beta} \cdot \frac{\partial^2 p}{\partial \dot{x}_\alpha \partial x_\beta}. \end{aligned} \quad (1)$$

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permits a solution in a closed form in only a few particular cases. For this reason, stationary distributions are discussed, and the constraints are analyzed under which the Maxwell - Boltzmann distribution is realized. The mechanical sense of the limitations introduced is also considered, with special attention to the case $r > 1$. The author demonstrates that the condition

$$h_a = \frac{\partial U}{\partial q_a} \quad (a = 1, 2, \dots, r) \quad (2)$$

is not overly restrictive, and that the requirement for equality of the partial attenuation factors ($C_1 = C_2 = \dots = \text{const.}$) is of greater consequence. This requirement contradicts generally known experimental data regarding the damping forces in mechanical systems. On the other hand, the condition

$$c_{\alpha\beta} = c\delta_{\alpha\beta}, \quad (3)$$

imposes extremely severe limitations on the properties of the external forces. This problem is considered in some detail in the article. The paper concludes with an analysis of a particular case — a linear system with statistically independent generalized forces, with an analysis of the following system of equations:

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$$\ddot{q}_a + 2\epsilon_a q_a + \rho_a \omega_a^2 q_a = Q_a(t) \quad (a = 1, 2, \dots, r), \quad (4)$$

where ω_a are the partial frequencies of the natural (eigen) oscillations. The Fokker - Planck - Kolmogorov equation is presented in its proper form, and the stationary solution is sought in the form of a Gaussian distribution:

$$p = C \exp \left(-\frac{1}{2} \sum_{a=1}^r a_1 q_a^2 - \frac{1}{2} \sum_{a=1}^r b_a q_a^2 \right) \quad (5)$$

Orig. art. has: 30 formulas and 4 figures.

ASSOCIATION: Institut avtomatiki i mekhaniki AN LatSSR (Institute for Automation and Mechanics, AN LatSSR)

SUBMITTED: 00

ENCL: 00

SUB CODE: ME

NO REF SOV: 007

OTHER: 004

4/4

Card

ACCESSION NR: APT000450

5/0179/63/000/002/0001/0079

AUTHOR: Egorov, V. V. (Moscow)

TITLE: On the theory of laminated plates

SOURCE: AN SSSR, Izv. Otdel. tekhn. nauk. Mekhanika i mashinostroyeniya,
no. 3, 1963, 65-72

TOPIC TAGS: laminated plates, multilayer sandwich plates, flexure of laminated plates

ABSTRACT: The equations of flexure, with boundary conditions, of elastic plates built up of n "rigid" and $n-1$ "soft" alternate laminas, both of constant thickness, are derived under the following assumptions: 1) The "rigid" lamina is an elastic plate obeying the Kirchhoff-Love law. 2) The plate as a whole has no normal strains. 3) The normal and tangential stresses in the plane of a "soft" lamina are constant over its thickness and proportional to the shear angles. An expression is derived for the potential energy of this "multilayer"

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ACCESSION NR.: AP5008415

"sandwich" plate under normal continuous load. By applying the variational Lagrange principle to the energy functional and using the Ostrogradskiy-Euler equations, an expression for the total bending moment is derived. The limit cases of a system of loose and of perfectly rigidly bound laminas are discussed, and an equation of flexure of a laminated plate having "monolithic" cylindrical rigidity is given. Other forms of writing the fundamental equations (by introducing potentials for tangential displacements or by taking into account the "slips" which characterize the deviation from the Kirchhoff-Love hypothesis) are briefly discussed. As an example, an expression is derived for determining the deflection of a "regular," laminated, rectangular, simply supported plate under continuous load given by a trigonometric function. The term "regular" means that all characteristics of all "rigid" laminas are identical, as are those of all soft laminas. An expression for deflection in the center of a square plate under uniform continuous load is deduced, and results of computation of the deflection are shown in a diagram. Orik. art. has: 2 figures and 44 formulas.

SEARCHED: **INDEXED**: **DIVISION**: **POLICE**:
SERIALIZED: **FILED**: **SEARCHED**: **INDEXED**:
Card 2/2

S/040/63/027/002/015/019
D251/D308

AUTHOR: Bolotin, V. V. (Moscow)

TITLE: On the density of natural frequencies of thin elastic shells

PERIODICAL: Prikladnaya matematika i mehanika, v. 27, no. 2,
1963, 362-364

TEXT: The author discusses the problem of finding the number of natural oscillations lying within a given interval for the case of thin elastic shells. This problem is important in connection with the theory of the elements of structures in a random force field. An estimate of the frequency density is obtained in terms of the wave numbers, and a number of dependence relationships are deduced. There are 2 figures.

SUBMITTED: December 8, 1962

Card 1/1

BOLOTIN, V.V., doktor tekhn. nauk, prof.

Evaluating the resource of a structure under the action of
random loads. Rasch. na prochn. no. 98302-326 '63 (MIRA 16:12)

BOLOTIN, V.V.

Vibration of layered elastic plates. Proceed vibr probl
4 no. 4:331-346 '63.

1. Institut mekhaniki Akademii nauk SSSR, Moskva.

BOLOTIN, Vladimir Vasil'yevich; GOL'DENBLAT, Iosif Izrailevich;
SMIRNOV, Anatoliy Filippovich; GORYACHEVA, T.V., red.

[Present-day problems of structural mechanics] Sovremen-
nye problemy stroitel'noi mekhaniki. Moskva, Stroizdat,
1964. 130 p. (MIRA 17:12)

BOLOTIN, V.V. (Moscow)

"The mechanics of solids and the reliability theory"

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 January - 5 February 1964

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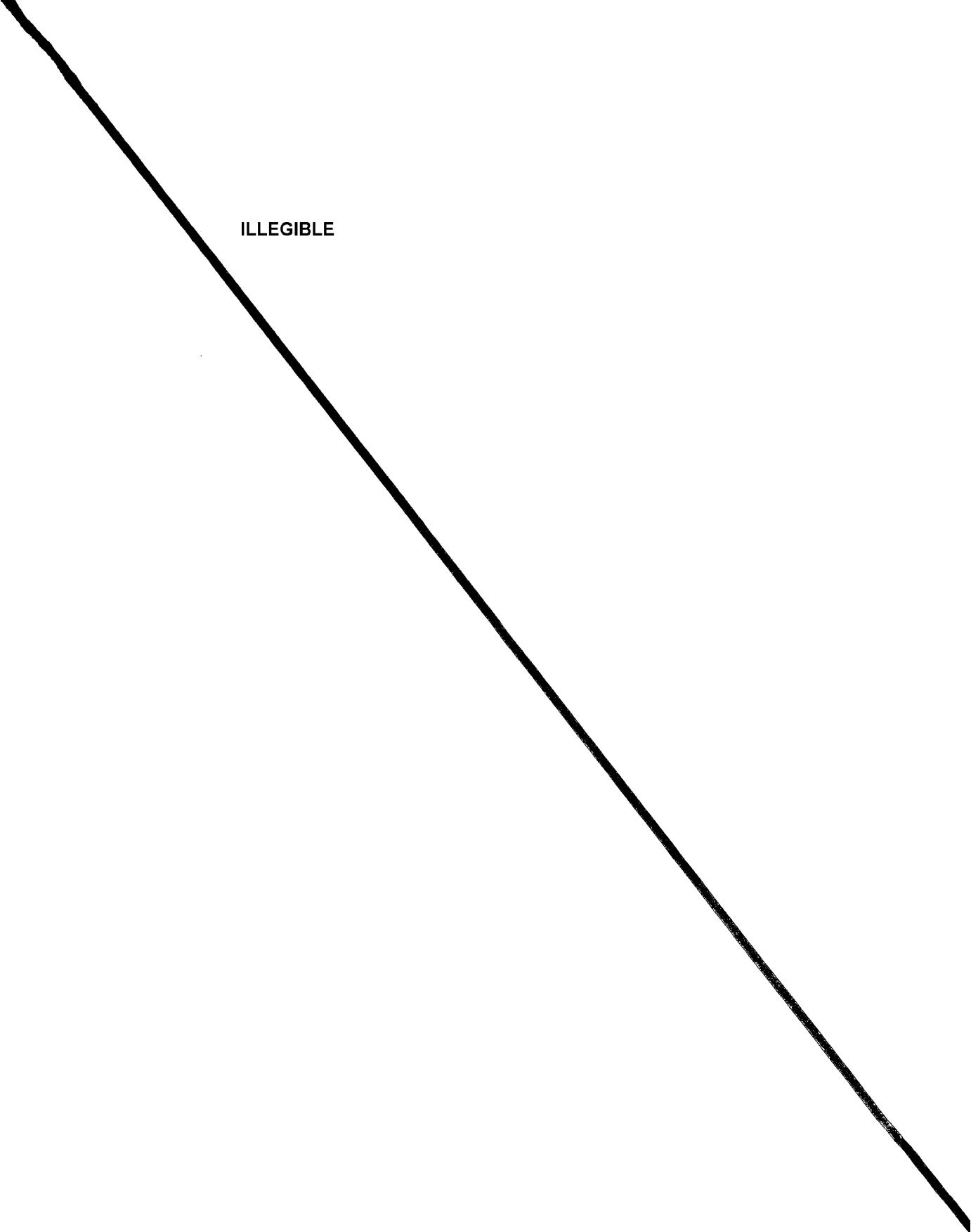
BOLOTIN, V. V.

"On the broadband random vibration of a nonlinear oscillator."

report submitted for 11th Intl Cong of Applied Mechanics, Munich, W. Germany,
30 Aug-5 Sep 64.

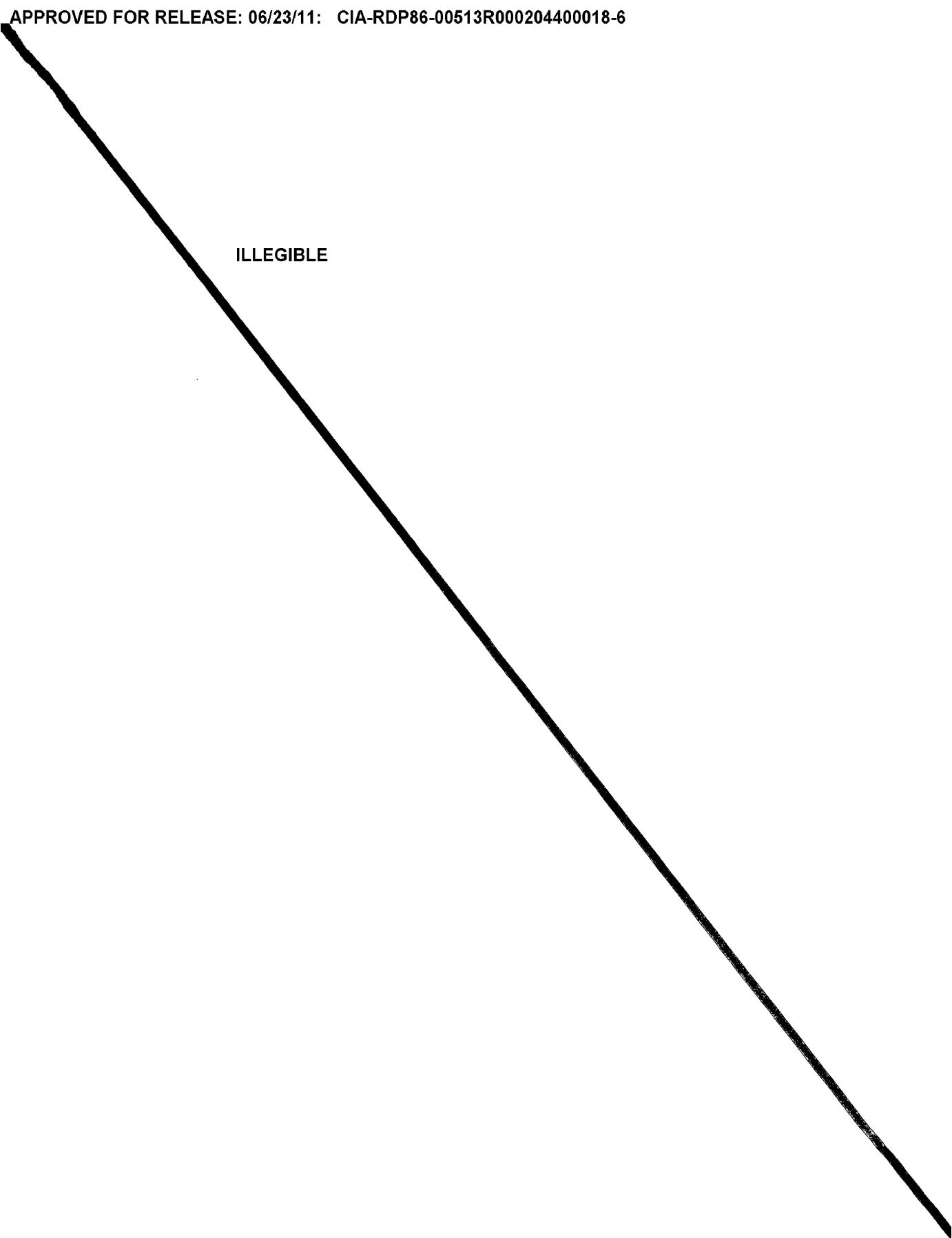
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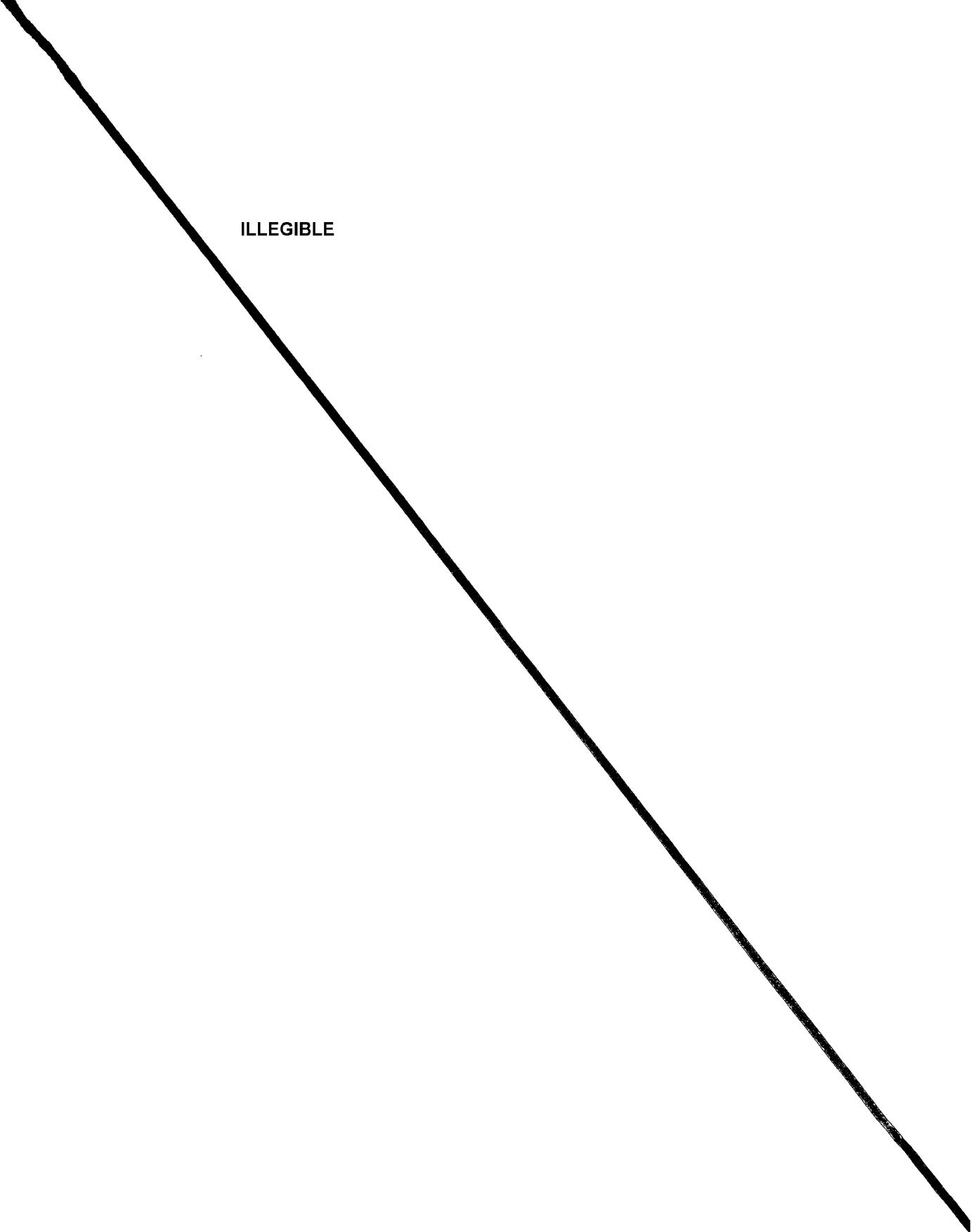
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ACCESSION NR: AP4018426

8/0179/64/000/001/0081/0086

AUTHOR: Bolotin, V. V. (Moscow)

TITLE: On bending of plates which are composed of a large number of layers

SOURCE: AN SSSR. Izv. Otd. tekhn. nauk. Mekhanika i mashinostroyeniye, no. 1, 1964,
61-68

TOPIC TAGS: stress analysis, bending, stress, multilayer plate, force analysis,
elastic plate bending, plate bending

ABSTRACT: A theory of elastic plates composed of alternating "hard" and "soft" layers was presented in a work by V. V. Bolotin (K teorii sloistykh plit. Izv. AN SSSR, OTN, Mekhanika i Mashinostroyeniye, 1963, No. 3) as a natural generalization of the well known theory of trilayer plates with a soft filler. In the present article there is an examination of the limiting case of this theory built on the supposition that there is a rather large number of plates. Differential equations and natural boundary conditions are set up which correspond to some equivalent three dimensional problem. The error is estimated which is connected with transition to a three dimensional problem. An example is given of a solution to the problem of bending of a plate which is rectangular in plan, loaded by a uniformly distributed

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ACCESSION NR: AP4018425

load. Orig. art. has: 2 figures and 27 formulas.

ASSOCIATION: none

SUBMITTED: 01Jul63

DATE ACQ: 23Mar64

ENCL: 00

SUB CODE: AP

NO REF Sov: 005

OTHER: 001

Card 2/2

BOLOTIN, V.V., doktor tekhn.nauk, prof.; MAKAROV, B.P., kand.tekhn.nauk;
KURANOV, B.A., inzh.

Strength and rigidity of internal transformer windings.
Elektrichestvo no.4:54-58 Ap '64. (MIRA 17:4)

l. Moskovskiy energeticheskiy institut.

ACCESSION NR: AP4043525

S/0258/64/004/003/0516/0524

AUTHORS: Bolotin, V. V. (Moscow); Moskalenko, V. N. (Moscow)

TITLE: Deflection of two layer plates connected with elastic rods

SOURCE: Inzhenernyy zhurnal, v. 4, no. 3, 1964, 516-524

TOPIC TAGS: elastic plate, middle surface deflection, torsion, shear, deformation, elasticity modulus, Poisson coefficient, stress tensor, potential energy, transverse component, variational principle

ABSTRACT: The deflection of a system consisting of two elastic plates connected with rods (see Fig. 1 on the Enclosure) was studied, considering middle surface deflection, plus the torsion, shear, and deformation of the connecting rods. The thickness h_α , elasticity modulus E_α , and Poisson's coefficient ν_α for each plate are assumed to be constant. The deflection of a point on the plate u_α, v_α ,

w_α is defined by $u_\alpha^* = u_\alpha - \zeta_\alpha \frac{\partial w_\alpha}{\partial x}, v_\alpha^* = v_\alpha - \zeta_\alpha \frac{\partial w_\alpha}{\partial y}, w_\alpha^* = w_\alpha$ ($\alpha = 1, 2$).

The components of the deformation and stress tensors are defined explicitly, and

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an expression is introduced for the potential energy stored during the plate deflection. It is further assumed that plate separation distance H is much greater than h_∞ . The forces generated in the rods are divided into longitudinal and transverse components and an equivalent potential energy expression is written for the rod deformation. Lagrange's variational principle is then used to determine the governing equation for plate and rod deflections and then reduced to a simpler form corresponding to homogeneous rods, uniformly distributed between the two plates. The potential functions ϕ and ψ are then written in terms of polar coordinates r , θ , and expressions derived for w and ϕ under a concentrated load or

$$w_0(r;\theta) = \int_0^{\pi} d\theta_0 \int_{r_0}^{r} \tilde{q}(r_0, \theta_0) \xi^3 \ln \xi r_0 dr_0,$$

$$\psi_0(r, \theta) = -\frac{H}{2} \int_0^{\pi} d\theta_0 \int_{r_0}^{r} \tilde{q}(r_0, \theta_0) [\xi^3 \ln \xi + 4\chi^{-1}(1 + \ln \xi)] r_0 dr_0,$$

where

$$\tilde{q} = \frac{3(1-v^2)qH^4}{2\pi E h (h^2 + 3H^2)}, \quad \xi = \frac{1}{H} \sqrt{r^2 + r_0^2 - 2rr_0 \cos(\theta - \theta_0)}.$$

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ACCESSION NR: AP4043525

An example is given corresponding to the deflection of a circular plate under uniformly distributed loads on each plate surface. Orig. art. has: 67 equations and 2 figures.

ASSOCIATION: Institut mekhaniki AN SSSR (Institute of Mechanics AN SSSR)

SUBMITTED: 06Sep64

ENCL: 01

SUB CODE: ME

NO REF Sov: 002

OTHER: 000

ACCESSION NR: AP4043525

ENCLOSURE: 01

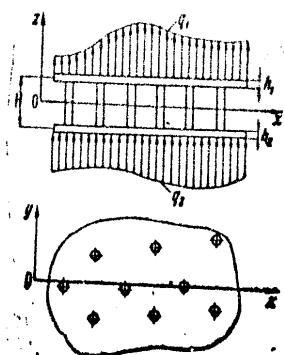
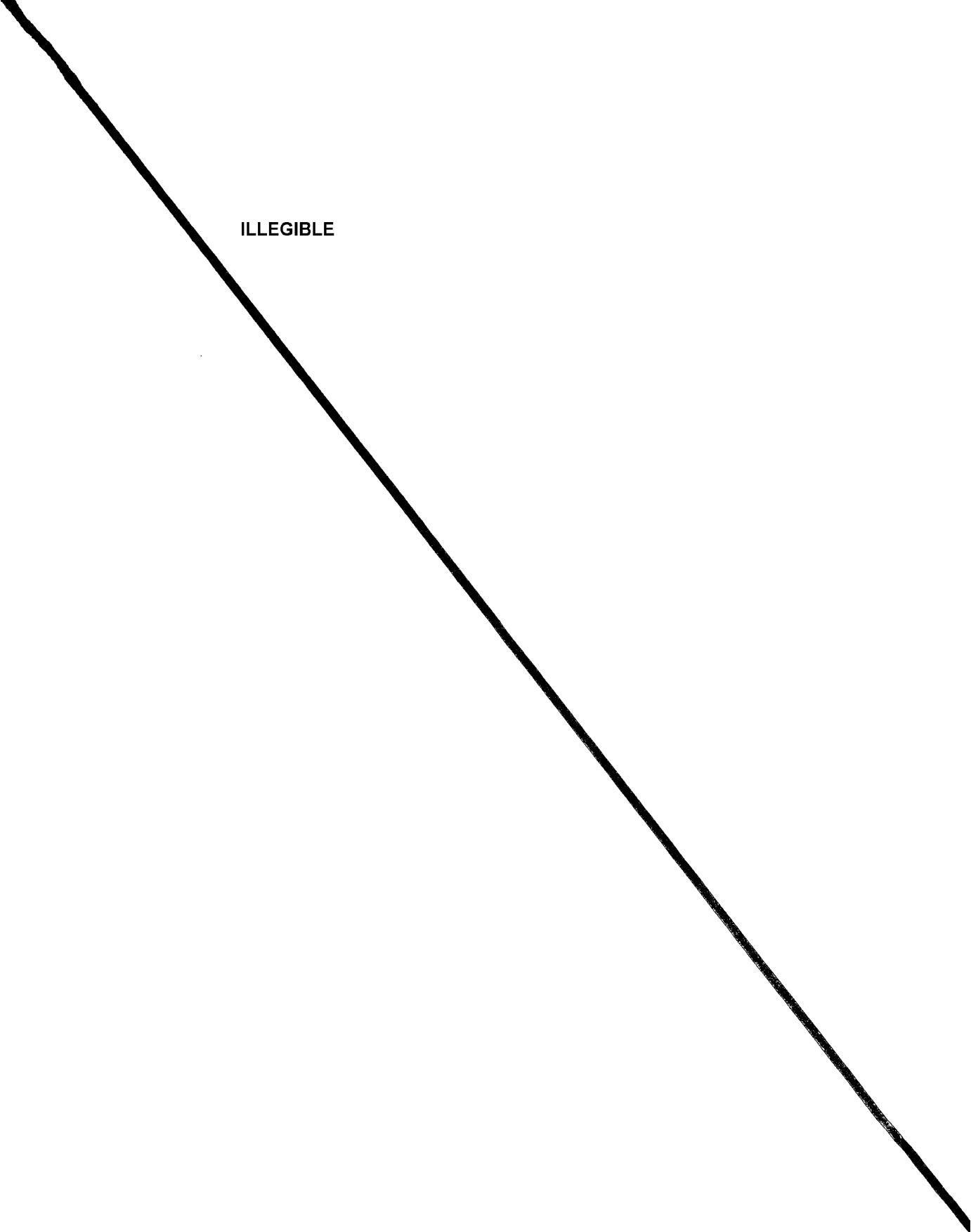


Fig. 1.

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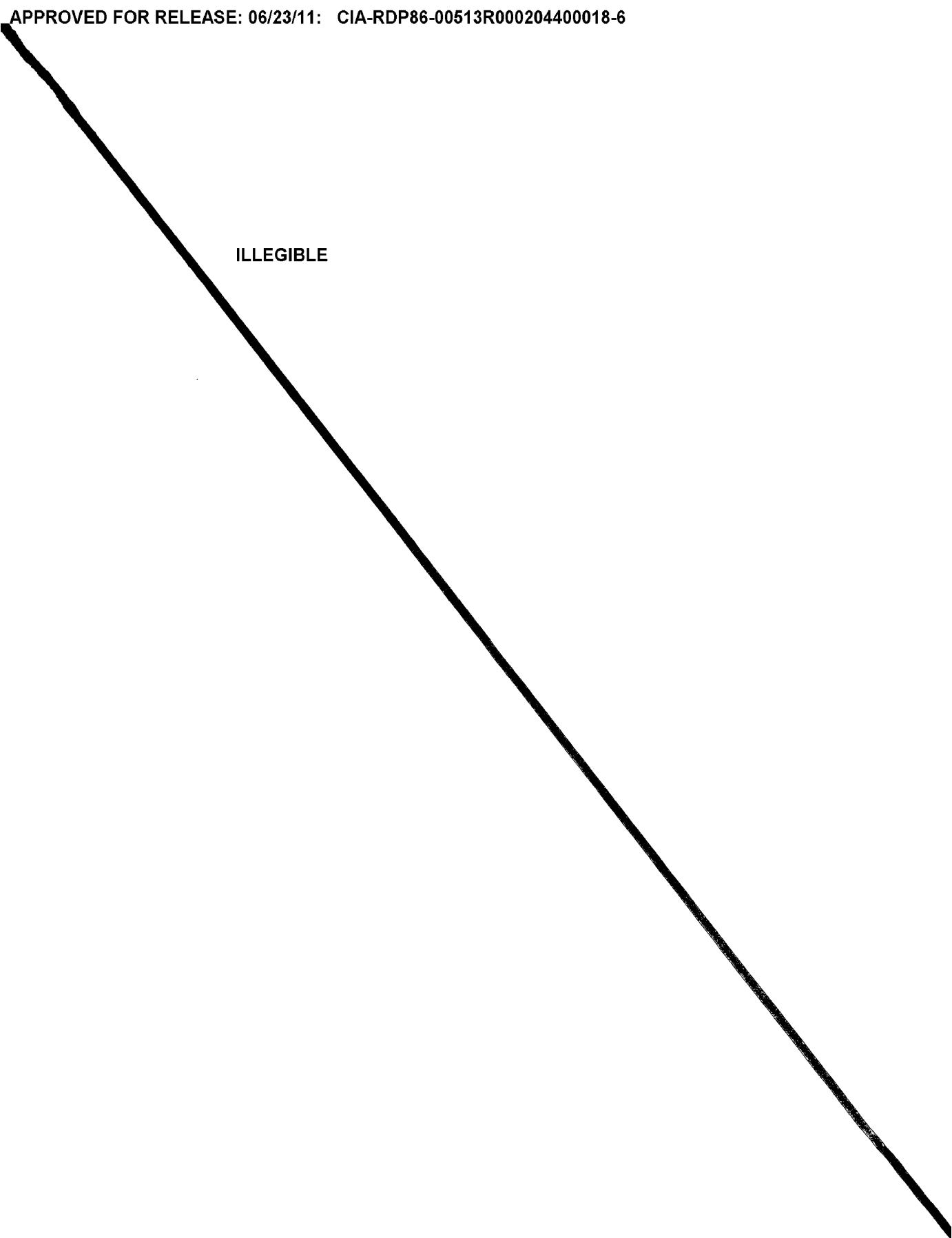
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BOLOTIN, V.V., prof. inz. 'ye.

Designe compilation of alternating stains having the picture of
quasi-stationary radiation or a wide-range spectrum.
Stroj nos. 15 no. 58373-383 '64

1. Academy of Sciences of the U.S.S.R., Moscow.

BELOTSERKOVETS, Vladimir Vasil'yevich

[Safety manual for workers using guns in construction and assembly work] Pamiatka po tekhnike bezopasnosti dlia rabotaiushchikh so stroitel'no-montazhnymi pistoletami. Moskva, Stroizdat, 1965. 29 p. (MIRA 18:8)

ACCESSION NR: AR4042223

S/0124/64/000/006/A020/A020

SOURCE: Ref. zh. Mekhanika, Abs. 6A115

AUTHOR: Belotin, V. V.

TITLE: Stationary distributions of probabilities in the statistical dynamics of elastic systems

CITED SOURCE: Sb. Vopr. dinamiki i prochnosti. Vy*p. 10. Riga, AN LatvSSR, 1963, 57-67

TOPIC TAGS: probability, elastic system, statistical dynamics, elastic system statistical dynamics

TRANSLATION: A description of the solution of the Fokker-Planck equation for elastic systems, under the action of random δ -correlated perturbations. It considers both a system with finite number of degrees of freedom, and also a system approximately reduced to such a means of introduction of expansions

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ACCESSION NR: AR4042223

with respect to a finite number of forms of free oscillations. It is shown that Maxwell-Boltzmann distribution can be a stationary solution of the Fokker-Planck equation only under very limited conditions imposed on parameters of system and properties of perturbations.

SUB CODE: MA

ENCL: 00

BOLOTOVSKIY, V.M.

Skin effect in thin films and wires. Zhur. eksp. i teor. fiz. 32
no.3:559-565 Mr '57. (MLRA 10:11)

1. Fizicheskiy institut im. P.N. Lebedeva AN SSSR.
(Electric current)

SHARIPOV, A.Eh.; BEIATSERKOVCHENKO, V.G.

Operating sinking centrifugal electric pumps in the Petroleum
Production Administration of the October Petroleum Trust,
Nefteprom. delo no. 3:19-21 '64. (MIRA 17:5)

1. Neftepromyslovoye upravleniye "Oktyabr'skneft".

BELOTSERKOVETS, Vladimir Vasil'yevich; KAMINSKIY, Ye.A., red.;
SHIROKOVA, M.M., tekhn. red.

[Use of the SMP-1 gun in electrical wiring operations]
Primenenie stroitel'no-montazhnogo pistoleta SMP-1 v
elektromontazhnom proizvodstve. Moskva, Gosenergoizdat,
1962. 68 p. (Biblioteka elektromontera, no.74)

(MIRA 15:9)
(Electric wiring-Equipment and supplies)

KUZNETSOV, Yuriy Petrovich; BELOTSERKOVETS, V.V., nauchn. red.;
MUPKINA, V.G., red.; BARANOVA, N.N., tekhn. red.

[Mechanization of electrical equipment installation] Me-
khanizatsiya elektromontazhnykh rabot. Moskva, Proftekhis-
dat, 1963. 119 p. (MIRA 16:8)
(Electric power distribution)

BELOTSERKOVETS, Yu.I.

Method of determining the thickness of a coal seam by gamma-gamma logging. Geofiz. razved. no.6:111-117 '61. (MIRA 15:4)
(Donets Basin--Coal geology) (Logging (Geology))

BELOTSERKOVETS, Yu.I. [Bilotserkovets', IU.I.]

Density of coal and surrounding rocks in the Donets Basin. Dop.
AN URSR no.7:900-903 '61. (MIRA 14:8)

1. Luganskaya geofizicheskaya ekspeditsiya tresta "Ukrgeofizrazvedka". Predstavлено академиком АН USSR V.G.Bondarchukom [Bondarchuk, V.H.].
(Donets Basin--Coal--Density) (Donets Basin--Rocks--Density)

BELOTSERKOVETS, Yu.I. [Bilotserkovets', IU.I.]

Determining the thickness of a coal seam from the gamma-gamma
logging curve. Dop. AN URSR no.8:1030-1033 '61. (MIA 14:9)

1. Luganskaya geofizicheskaya ekspeditsiya tresta "Ukrgeofiz-
razvedka". Predstavлено академиком АН USSR V.G. Bondarchukom
[Bondarchuk, V.H.]

(Coal geology) (Logging (Geology))

BELOTSERKOVETS, Yu.I.

Depth of gamma-gamma logging. Prikl. geofiz. no.36:214-218 '63.
(MIRA 16:9)
(Logging (Geology))

BELOTSERKOVETS, Yu.I.

Density of intrusive rocks in the coal-bearing formation of the
Donets Basin. Geofiz. sbor. no.4:43-47 '63. (MIRA 16:9)

1. Luganskaya geofizicheskaya ekspeditsiya tresta "Ukrgeofiz-
razvedka".

BELOTSERKOVETS, Yu.I.; KUZNETSOV, A.G.

Interpretation of gamma-gamma logging anomalies over
Donetsk Basin coal seams. Geofiz. razved. no.12:100-110
'63. (MIRA 16:11)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204400018-6

BALTIMORE, MD, USA

Sample of sandy rocks in the Potomac River, Maryland, locality 164;
1974-165. (CIA RDP)

AIZENSHTAT, Ya.; HELOTSERKOVSKAYA, B. (Kiev)

Analysis of stereometric problems to be solved by calculation.
Mat. v shkole no. 4:20-23 Jl-Ag '55. (MIRA 8:9)
(Geometry, Solid--Problems, exercises, etc.)

AYZENSHTAT, Ya.I. (Kiyev); BLOLOTSEKOVSKAYA, B.G. (Kiyev)

On calculating periods of trigonometric functions. Mat.v shkole
no.4:91-92 Jl-Ag '56. (MIRA 9:9)
(Trigonometrical functions)

BELOTSERKOVSKAYA, B.G. (Kiyev)

Short tests as a means for boosting progress in mathematics.
Mat.v shkole no.6:41-43 N-D '57. (MIRA 10:11)
(Mathematics--Study and teaching)

BELOTSERKOVSKAYA, B.G.

AYZENSHTAT, Ya.I.; BELOTSERKOVSKAYA, B.G. (Kiyev).

Easing the load for students studying trigonometry. Mat. v shkole
no.1:18-23 Ja-Y '58. (MIRA 11:1)
(Trigonometry--Study and teaching)

AYZENSHTAT, Ya.I.; BELOTSERKOVSKAYA, B.G. (Kiyev)

Certain errors in textbooks. Mat v shkole no.3:86-88 My-Je '58.
(Mathematics--Textbooks) (MIRA 11:5)

AYZENSHTAT, Yakov Iosifovich; BELOTSERKOVSKAYA, Basya Grigor'yevna; PAZEL'-SKIY, S.V., red.; SMIRNOVA, M.I., tekhn. red.

[Solving of problems in trigonometry; manual for teachers] Reshenie zadach po trigonometrii; posobie dlja uchitelei. Moskva, Gos. uchebno-pedagog. izd-vo M-va prosv. RSFSR, 1960. 254 p.

(MIRA 14:6)
(Trigonometry--Problems, exercises, etc.)



137-58-4-8701

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 340 (USSR)

AUTHOR: Belotserkovskaya, L. I.

TITLE: Working Conditions in the Crushing and Transport Department of a Copper-ore Concentration Mill (Usloviya truda v drobili i no-transportnom otdelenii mednorudnoy obogatitel'noy fabriki)

PERIODICAL: Zdravookhr Kazakhstana, 1957, Nr 7 pp 11-15

ABSTRACT: The sanitary level of the working conditions in the crushing and transport department and the effect of the duration of work under conditions of a heavily dust-laden atmosphere with high free SO₂ content on the development of silicosis are studied. A significant drop in silicosis incidence as a result of health measures taken during 1952-1956 is noted. It is pointed out that the existing elevated dust content in the mill atmosphere is explained by the slow reconstruction of the crushing and transport department and inadequate inspection of the sanitation measures taken. Automation of the switching-on of ore sprinkling from nozzles, with a central control panel, is recommended for proper operation of the nozzles.

Card 1/1 1. Copper ores--Processing--hazard 2. USSR 3. Ye. L.
 --Preventive measures

PELOTSEKOVSKAYA, T.T., Cand. Tekn. Nauk - (nips) "Conditions of
labor and the state of health of workers in the crushing-transport
and concentration departments of a copper ore concentrating
factory." Alma-Ata, 1958, 16 pp (Kazakh State Inst) (no copies
(KL, 27-13, 116)

1. BELOTBERKOVSKAYA, M. A.
2. USSR (600)
4. Turkeys - Georgievsk District (Northern Caucasus)
7. Work practice of the leading brigade on the turkey section of the Stalin Collective Farm, Georgievsk District, Stavropol Territory. Ptitsvodstvo no. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

BELOTSERKOVSKAYA, N. G.; GINZBURG, O. F.

Aryl methane dyes. Part 4: Acid-base properties of 4-dimethyl-
aminotriphenylcarbinol. Zhur. ob. khim. 33 no.1:160-165 '63.
(MIRA 16:1)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

(Methanol)

BELOTSERKOVSKAYA, N.G.; GINZBURG, O.F.

Quasitautomeric transformations of aminotriphenylcarbinols.
Dokl. AN SSSR 155 no. 5:1098-1100 Ap '64. (MIRA 17:5)

1. Leningradskiy tekhnologicheskiy institut im. Lensoveta.
Predstavлено академиком М.И.Кабачником.

RELOTSEKOVSKAYA, N.G.; GINZBURG, O.F.

Aryl methane dyes. Part 5: Transformations of malachite green
and its derivatives in sulfuric acid. Zhur. ob. khim. 34 no.7:
2275-2282 Jl '64
(MIRA 1718)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

BELOTSERKOVSKAYA, N.G.; GINZBURG, O.P.

Aryl methane dyes. Part 6: Transformations of Döbner's violet and
its derivatives in sulfuric acid. Zhur. ob. khim. 34 no.10:3274-
3278 O '64.

(MIRA 17:11)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

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TELETYPE MESSAGE, U. S. MI.

Print five copies of "The Marxist" newspaper
Issue #4, April 1952

1. BLOOTSERKOVSKAYA, O. YU.
2. USSR (600)
4. Tree Planting
7. Hillcheck method for sowing and planting trees, Les i step', 5,
No. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

BILOTSERKOVSKAYA, R.V.

Roentgen diagnosis of varicose dilation of esophageal vessels.
Ter.arkh. 22 no.6:67-70 Nov-Dec 50. (CLML 20:5)

1. Of the Department of Roentgenology (Head--Prof.R.Ya. Gasul'),
Odessa State Institute for the Advanced Training of Physicians,
Odessa.

BULOTSEKOVSKAYA, R.V. (Odessa).

Case of dracunculiasis. Vest.rent.i rad. no.3:93-95 My-Je '53. (MLRA 6:8)
(Worms, Intestinal and parasitic)

BELOTSERKOVSKAYA, R.V., ordinatar

X-ray diagnosis of solid tumors of the mesentery of the small intestine. Vest.rent. 1 rad. 31 no.2:80-82 Mr-Ap '56. (MLRA 9:8)

1. Iz kafedry rentgeno-radiologii Odesskogo instituta usovershenstvovaniya vrachey (zav. prof. R.Ya.Gasul') i rentgenologicheskogo otdeleniya Odesskoy gorodskoy klinicheskoy bol'nitsy (glavnnyy vrach V.M.Levandovskiy)

(MESENTERINS, neoplasma,
diag., x-ray of solid tumors (Rus))

ACCESSION NR: AR4032176

S/0058/64/000/002/D056/D057

SOURCE: Ref. zh. Fiz., Abs. 2D450

AUTHORS: Andreyev, I. S.; Belotserkovskaya, S. B.; Kashirskaya, I.V.

TITLE: Effect of prior electrolysis of ZnS on some properties of luminors

CITED SOURCE: Nauchn. tr. Tashkentsk. un-t, vy*p. 221, 1963, 5-7

TOPIC TAGS: luminor, luminophor, phosphor, luminor brightness, luminor electrolysis, copper diffusion time

TRANSLATION: It is established that luminors made on the basis of ZnS subjected to prior electrolysis have a greater brightness. The copper diffusion time necessary to attain the given brightness is in this case somewhat smaller than for ZnS without prior electrolysis. Suggestions concerning the nature of the observed phenomena

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ACCESSION NR: AR4032176

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Card 2/2

DOTSENKO, Nikolay Illarionovich, kand. tekhn. nauk; BELOTSERKOVSKAYA,
S.I., red.

[Reconditioning crankshafts by automatic build-up welding]
Vosstanovlenie kolenchatykh valov avtomaticheskoi naplavkoj.
Moskva, Transport, 1965. 65 p. (MIRA 18:8)

ARKHANGEL'SKIY, Yuriy Aleksandrovich; BELOTSERKOVSKAYA, S.I.,
red.; GALAKTIONOVA, Ye.N., tekhn. red.

[Safety measures in the production of ethyl gasoline]
Tekhnika bezopasnosti pri rabote s etilirovannym benzi-
nom. Izd.3, dop. Moskva, Avtotransizdat, 1963. 33 p.
(MIRA 16:7)

(Gasoline--Safety measures)

KARTASHOV, Vladimir Petrovich; BELOTSERKOVSKAYA, S.I., red.;
GORYACHKINA, R.A., tekhn. red.

[Automotive transportation in socialist Czechoslovakia]
Avtomobil'nyi transport sotsialisticheskoi Chekhoslovakii.
Moskva, Avtotransizdat, 1963. 33 p. (MIRA 16:8)
(Czechoslovakia—Transportation, Automotive)

GLAZOV, Vladimir Vladimirovich; NAUMOV, Vasiliy Ivanovich;
SHALUN, Grigorij Borisovich; NAUMOV, V.I., otv. za
vyp.; BELOTSERKOVSKAYA, S.I., red.; GALAKTIONOVA, Ye.N.,
tekhn. red.

[Using synthetic resins in repairing body parts and trimmings of motor vehicles] Remont detailei kuzovov i opereniia
avtomobilei s pomoshch'iu sinteticheskikh smol. Moskva,
Avtotransizdat, 1963. 35 p. (MIRA 17:1)
(Motor vehicles—Maintenance and repair)
(Resins, Synthetic)

NESVITSKIY, Yakov Ivanovich; BELOTSERKOVSKAYA, S.I., red.;
GORYACHKINA, R.A., tekhn. red.

[Service life of a motor vehicle] Dolgovechnost' avtomobilja. Moskva, Avtotransizdat, 1963. 43 p. (MIRA 16:9)
(Motor vehicles)

MANUSADZHYANTS, Zhorsh Gerasimovich; BELOTSERKOVSKAYA, S.I., red.;
BODANOVA, A.P., tekhn. red.

[Handbook for welders in automotive transportation units]
Pamiatka svarshchiku avtokhoziaistva. Moskva, Avtotrans-
izdat, 1963. 51 p. (MIRA 16:7)
(Welding)

BYALIK, Lev Grigor'yevich; GAVRILOV, Georgiy Petrovich; KLENNIKOV,
Yevgeniy Vladimirovich; BELOTSERKOVSKAYA, S.I., red.;
BODANOVA, A.P., tekhn. red.

[Dump-truck trains; practice of the No.2/ Automotive Trans-
portation Combine at the Main Moscow Automotive Transporta-
tion Unit] Samosval'nye avtopoezda; iz opyta avtokombinata
No.2/ Glavmosavtotransa. Moskva, Avtotransizdat, 1963. 61 p.
(MIRA 17:3)

GRECHINSKAYA, L.T.; GURMAN, V.S.; starshiy inzhener;
~~RELOTSEKOVSKAYA, S.I.~~, red.; GALAKTIONOVA, Ye.N., tekhn.
red.

[Improving the quality of the repair of cardan shafts of
ZIL motortrucks] Uluchshenie kachestva remonta kardannykh
valov avtomobilei ZIL. Moskva, Avtotransisdat, 1963. 72 p.
(MIRA 16:7)

1. Nachal'nik laboratori~~i~~ Nauchno-issledovatel'skogo instituta
avtomobil'nogo transporta (for Grechinskaya, Gurman).
(Motortrucks—Maintenance and repair)

MOTIN, Ivan Antonovich; KOGUYENKO, Boris Leonidovich; BRASLAVSKIY,
Mikhail Samoylovich; BELOTSERKOVSKAYA, S.I., red.

[Mechanization and automation of operations in service stations; practice of automotive transportation units of the Donets Economic Council] Mekhanizatsiya i avtomatizatsiya garazhnykh protsessov; iz opyta avtokhoziaistva Donetskogo sovnarkhoza. Moskva, Transport, 1964. 86 p.

(MIRA 17:4)

KOGAN, Eduard Izrailevich; BELOTSERKOVSKAYA, S.I., red.

[Safety engineering in carpentry and cabinet work] Tekhnika bezopasnosti pri plotnichnykh i stoliarnykh rabotakh,
Moskva, Transport, 1964. 45 p. (MIRA 17:7)

MUSHKEVICH, Gesel' Kalmanovich; SHEFET, Samuil Solomonovich;
BELOTSERKOVSKAYA, S.I., red.

[RAF-977 "Latvia" minibus; its design and maintenance]
Mikroavtobus RAF 977 "Latvija"; ustroistvo i obsluzhivanie. Moskva, Transport, 1964. 125 p. (MIA 17:8)

CHEPELEVSKIY, Vladimir Natanovich; TUMANOV, Ivan Alekseevich;
SARKHOSH'YAN, Gurgen Nikitovich; RUMYANTSEV, Aleksey
Nikolayevich; KLEVENSKIY, Aleksandr Iosifovich;
BELOTSERKOVSKAYA, S.I., red.; SHUPLYAKOV,S.I.,red.

[New developments in the technology and equipment used
in motor-vehicle repair] Novoe v tekhnologii i oborudova-
vaniye dlja remonta avtomobilej. Moskva, Transport, 1964.
127 p. (MINA 18:1)

SHEYNNIN, Aleksandr Mikhaylovich; BORISOV, Mikhail Ivanovich;
BELOISERKOVSKAYA, S.I., red.

[Norms of liquid fuel consumption for motor vehicles;
a handbook] Normy raskhoda zhidkogo topliva dlja avto-
mobilej; spravochnik. Izd. 2., dop. i perer. Moskva,
Transport, 1964. 207 p. (MIRA 17:11)

BELOTSERKOVSKIY, S.M. (Moskva); KUDRYAVTSEVA, N.A. (Moskva); TABACHNIKOV,
V.G. (Moskva)

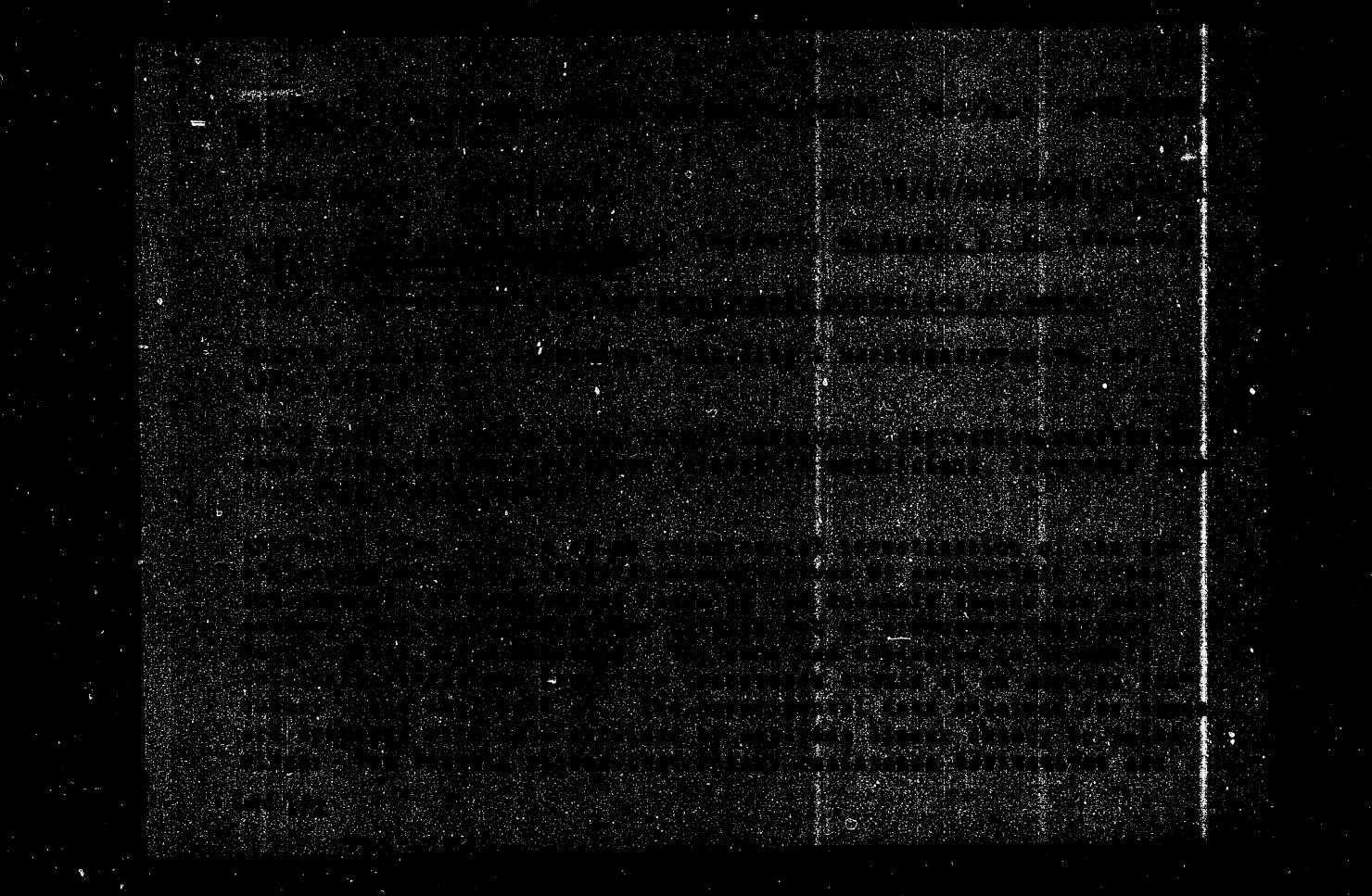
Experimental investigation of some principles in the nonsta-
tionary theory for airfoils of finite span. Izv. AN SSSR
Mekh. i mashinostr. no.4:157-160 Jl-Ag '64 (MIRA 17:8)

BELOTBERGOVSKIY, A.A., inzh.

Determining the minimum permissible distance between magnetic
markers on a steel wire rope. Izv. vys. ucheb. zav.; gor. zhur.
7 no.11:167-171 '64. (MIRA 18:3)

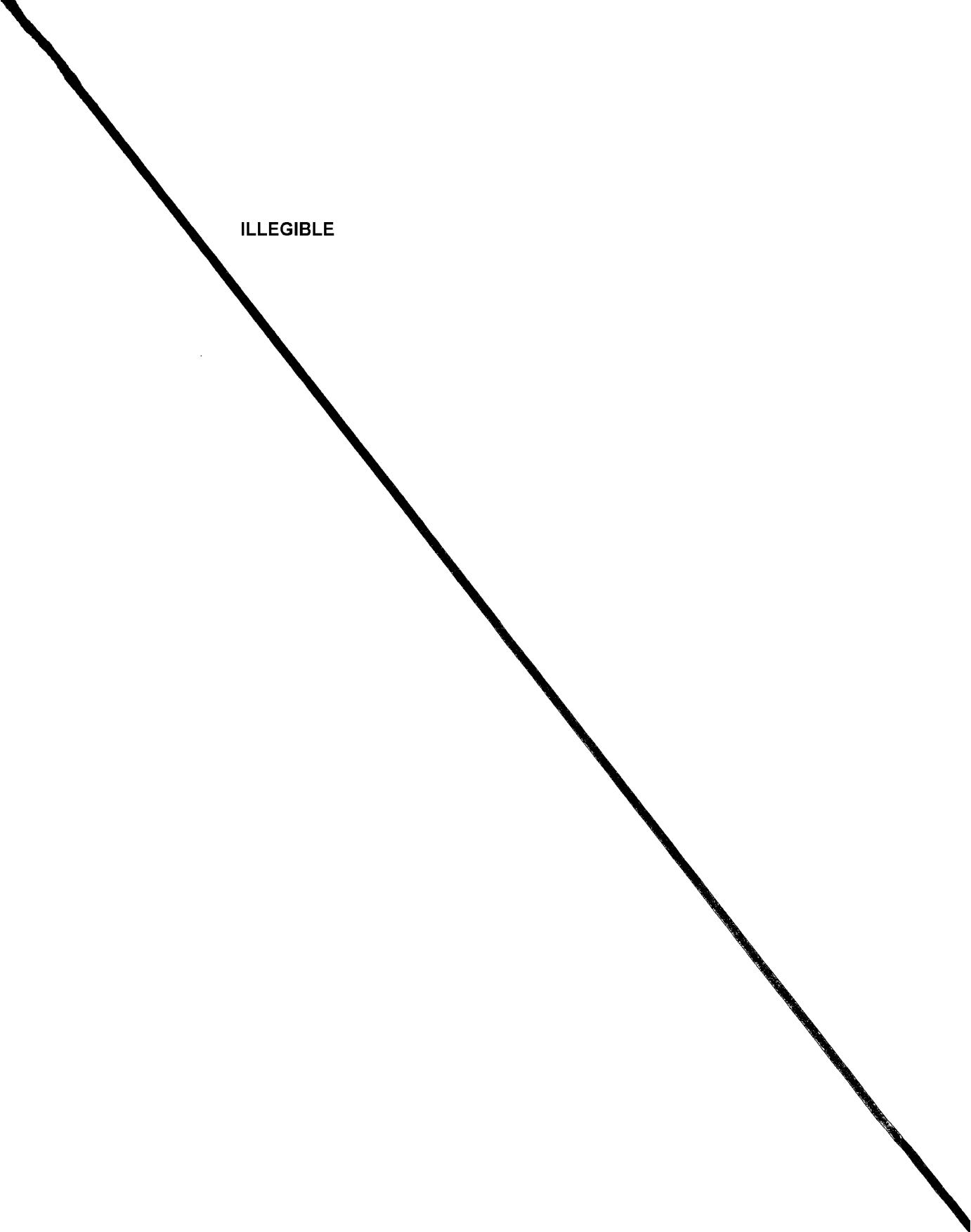
1. Donetskij politekhnicheskiy institut. Rekomendovana kafedroy
gornoj elektrotehniki i avtomatiki.

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BELOTSERKOVSKIY, A. [Bilotserkiv's'kyi, A.], inzh. (Donetsk)

Waste products or raw materials? Nauka i zhyttia 12 no.4:34-
36 Ap '62. (MIRA 15:8)
(Glass manufacture)

14(5)

SOV/112-59-1-1306

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 1, p 176 (USSR)

AUTHOR: Shapochka, P. V., and Belotserkovskiy, A. A.

TITLE: A New Automatic Speed Controller for Mine Hoists

PERIODICAL: Ugol' Ukrayny, 1958, Nr 3, pp 34-39

ABSTRACT: An automatic speed controller serves as a controlling link in the automatic program speed control system and also serves to limit hoisting speed. The accuracy and reliability of existing speed limiters are inadequate; the limiters are unfit to operate in automated mining hoists. The controller compares the actual and set speeds, the latter being recorded magnetically. A speed deviation brings about a variation in frequency induced in a reading head. The controller also comprises a self-supervisory device and can be used for both drum and multirope-friction hoists. Five illustrations.

M.R.S.

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POZDNYAKOV, Mikhail Alekseyovich; BELOTSEKOVSKIY, A.G., inzh.,
retsenzent; SOLOGUB, V.S., Inzh., red.; SOROKA, M.S., red.;
GORNOSTAYPOL'SKAYA, M.S., tekhn. red.

[The K-750 motorcycle] Mototsikl K-750. Moskva, Mashgiz, 1961.
278 p. (MIRA 15:3)

(Motorcycles)

BELOTSERKOVSKIY, Aron Grigor'yevich; LINDIN, I.V., red.; SHAFETA,
S.M., tekhn. red.

[Motor-vehicle batteries] Avtomobil'nye akkumuliatory. Kiev,
Gostekhizdat USSR, 1962. 119 p. (MIRA 15:9)
(Motor vehicles--Batteries)

BELOTSERKOVSKIY, Aron Grigor'yevich, inzh.; MIKHALEVICH, Aron Abramovich,
inzh.; KALISSKIY, V.S., inzh., retsenzent; PILIPENKO, Yu.P.,
inzh., red.; GORNOSTAYPOL'SKAYA, M.S., tekhn. red.

[Handbook for motor-vehicle drivers] Pamiatka voditelia avto-
mobilja. Moskva, Mashgiz, 1963. 155 p. (MIRA 16:4)
(Automobile drivers--Education and training)

BELOTSERKOVSKIY, Aleksandr Ivanovich; POLYAKOV, V., red.;
KUZEMBAYEVA, A., tekhn. red.

[Volunteer design bureau]Obshchestvennoe konstruktorskoe biuro.
Alma-Ata, Kazakhskoe gos. izd-vo, 1962. 35 p. (MIRA 15:12)
(Machinery—Design)

BELOTSERKOVSKIY, A.M.

~~BELOTSERKOVSKIY, A.M.; VOLKOV, Yu.N.; SHASHIN, A.Ya.; PONAMAREV, I.P.,~~
~~redaktor; ZAITSEHOV, A.V., redaktor; ALADOVA, Ye.I., tekhnicheskij~~
~~redaktor~~

[Mechanical equipment for inclined skip hoists; calculation and
design] Mekhanicheskoe oborudovanie naklonnogo skipovogo pod'ema;
raschet i konstruirovaniye. Moskva, Ugletekhizdat, 1954. 103 p.
(Mine hoisting) (MIRA 8:4)

BELOTSEKOVSKIY, Artem Markovich; RUDNITSKIY, P.S., otvetstvennyy redaktor;
AUTO-MITSEV, A.Z., redaktor izdatel'stva; BEKHER, O.G., tekhnicheskiy
redaktor

[Scraper equipment for coal stockpiles] Skrepernoe oborudovanie
ugol'nykh skladov. [Moskva] Ugletekhsdat, 1957. 216 p.
(Coal-handling machinery) (MIRA 10:11)

BELOTSEPKOVSKIY, A.M., Cand Tech Sci--diss) "Basic problems of perfecting
the dragline-scraper equipment of coal storcheses." Dnepropetrovsk, 1955.
19 pp (min of Higher Education USSR. Dnepropetrovsk Order of Labor Red
Banner Mining Inst im Artes), 100 copies (KI, 30-52, 126)

BELOTSERKOVSKIY, Artem Markovich; SHTEYNBUK, Vladimir L'vovich;
VASILENKO, V., red.; TIMOSHEVSKAYA, A.A., tekhn. red.

[Plastics in mining] Plastmassy v gornom dele. Stalino,
Knizhnoe izd-vo, 1960. 132 p. (MIRA 15:8)
(Plastics) (Mining engineering--Equipment and supplies)

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BELOTSERKOVSKIY, A.M.; VOLOSKOV, G.A.

Investigating the effect of vacuum on the quality of secondary poly-
caprolactam in autoclave liquefaction. Plast massy no.9:63-66 '61.
(MIRA 15:1)

(Asepinone) (Nylon)

BELOTSERKOVSKIY, Artem Markovich; MEL'NIKOVA, Zh.M., red.;
ATROSHCHENKO, L.Ye., tekhn. red.

[The plant works without waste or the miraculous transformations of slag] Zavod rabotaet bez otkhodov, ili chudesnye prevrashcheniya shlakov. Moskva, Izd-vo "Znanie," 1964. 52 p. (Novoe v zhizni, nauke, tekhnike. IV Seriya: Tekhnika, no.3) (MIRA 17:3)

BELOTSERKOVSKIY, Boris Vasil'yevich; BELOW, M.I., red.; TROPINOVA, Z.,
tekhn.red.

[In the land of Ivan Susanin] Na rodine Ivana Susanina. Kostroma,
Kostromskoe knizhnoe izd-vo, 1959. 67 p.
(Susanino District)

PEL'TSARKUL'YEV, D. V.

"Consideration of Pole Fluctuations in Corrections of State Time Service,"
Astronom, Tsirkulyar, No 14°, 19°/4, pp 13-14

Since 1953, the pole fluctuations have been taken under consideration in clock corrections. The coordinates of the pole are communicated to the Central Scientific Research Bureau of the Ioltava gravimetric observatory. The accuracy of the pole coordinates extrapolated 1° days in advance is sufficient, because the difference with the observed coordinates does not exceed 0"04. (RZhAstr, No 3, 1957)

SG: Sum. No. 536, 10 Jun 55

HELOTSEKOWSKIY, D.Yu.

P.E.Dolgov's 70th birthday. Izm. tekhn. no.2:60 Mr-Ap '55.
(Dolgov, Petr Nikolaevich, 1885--) (NLRB 8:9)

BELOTSERKOVSKIY, D.Yu.

All-Union conference of time services. Astron.zhur. 33 no.5:
778 S-0 '56. (MIRA 9:12)

(Astronomical clocks)

BELOTSERKOVSKIY, D.Yu.

All-Union convention of time service employees. Izm.tekh. no.4:
85 Jl-Ag '56. (MLRA 9:11)
(Time measurements)

BELOTSERKOVSKIY, D. Yu.
BELOTSERKOVSKIY, D.Yu.

Soviet time service during the past 40 years. Izm. tekhn. no.6:36-40
N-D '57. (MIRA 10:12)
(Time signals)

BELOTSERKOVSKIY, D.Yu.

New time zones in the U.S.S.R. Geog. v shkole 20 no.3:56-60 My-Je '57.
(Time- Systems and standards) (MLRA 10:6)

BELOTSERKOVSKIY, D.Yu., kand.tekhn.nauk, etv.red.; KONDRAT'YEVA, M.A.,
TOMM,TOMM

[Standard time determined by mean radio signal transmission
moments] Etalonnoe vremia v srednie momenty perevodach radio-
signalev; iyun' 1958. Moskva, 1958. 23 p. (MIRA 12:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut fiziko-tekhnicheskikh i radiotekhnicheskikh izmereniy.
(Time signals)

BELOTSERKOVSKIY, D.Tu.

International Geophysical Year and time measurements. Izm.tekh.
no.2:37-38 Mr-Ap '58. (MIRA 11:3)
(International Geophysical Year, 1957-1958)
(Time measurements)

BELOTSEKOVSKIY, D. Yu.

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Vsesoyuznaya astrosetricheskaya konferentsiya.

Trudy 14-y Astrosetricheskoy konferentsii SSSR, Kiyev, 27-30 maya 1973 g.
(Transactions of the 14th Astronomical Conference of the USSR, Held in Kiev
27-30 May 1973) Moscow, Izd-vo AN SSSR, 1973. 410 p. Errata slip inserted.
1000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Glavnaya astrosetricheskaya observatoriya
(Pulkovo).

Resp. Ed.: M. S. Zverev, Corresponding Member, Academy of Sciences USSR; Ed. of
Publishing House: N. N. Zaychik; Tech. Ed.: N. A. Smirnov.

PURPOSE: The book is intended for astronomers and astrophysicists, particularly
those interested in astronomical research.

COVERAGE: This publication presents the Transactions of the 14th Astronomical
Conference of the USSR, held in Kiev 27-30 May 1973. It includes 27 reports
and 55 scientific papers presented at the plenary meeting of the Conference

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Transactions of the 14th Astrometrical (Cont.) SOV/5721

and at the special sectional meetings. An appendix contains the resolutions adopted by the Conference, the composition of the committees, the agenda, and the list of participants at the Conference. A brief summary in English is given at the end of each article. References follow individual articles. The Presidium of the Astrometrical Committee (Chairman M. S. Zverev), which supervised the preparation of this publication, expresses thanks to the members of the secretariat: V. M. Vasil'yev, I. G. Kol'chinskiy, A. B. Ongina, and Kh. I. Potter.

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REPORTS OF THE ASTROMETRICAL COMMITTEE AND SUBCOMMITTEES
INFORMATION ON ASTROMETRICAL WORK PRESENTED BY VARIOUS INSTITUTIONS

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